

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: October 5, 2000

ATTY DOCKET NO.
2000_1390SERIAL NO.
NEW

091677420

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AC	AA	5,311,550	5-10-94	Fouche et al.	—	—	
	AB	4,630,287	12-16-86	Armstrong			
	AC	4,271,527	6-2-81	Armstrong			
	AD	5,050,188	9-17-91	Dirr			
	AE	5,398,073	3-14-95	Wei			
	AF	5,452,015	9-19-95	Hulyalkar			
	AG	5,565,932	10-15-96	Gitta et al.			
	AH	5,481,412	1-2-96	Bannai et al.			
	AI	3,909,721	9-30-75	Bussgang et al.	—	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ	0365431	4-25-90	EP	—	—		X
	AK	0485105	5-13-92	EP			X	
	AL	92/14343	8-20-92	WO			X	
	AM	89/08366	9-8-89	WO			X	
AC	AN	0031193	7-1-81	EP	—	—	X	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	AO	Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands", Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.
	AP	M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.
	AQ	Mitsuaki Oshima, "Constellation-Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.

EXAMINER

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DATE CONSIDERED

05.09.02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
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Date Submitted to PTO: October 5, 2000

ATTY DOCKET NO.
2000_1390SERIAL NO.
NEW

09/167420

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	4,227,152	10-7-80	Godard et al.	—	—	
	AB	4,525,846	6-25-85	Bremer et al.			
	AC	4,751,478	6-14-88	Yoshida			
	AD	4,891,806	1-2-90	Farias et al.			
	AE	4,903,125	2-20-90	Parker			
	AF	4,937,844	6-26-90	Kao			
↓	AG	5,164,963	11-17-92	Lawrence et al.			
AS	AH	5,555,275	9-1996	Oshima	—	—	
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
AS	AJ	0311188	4-12-89	EP	—	—	X	
	AK	0329158	8-23-89	EP			X	
	AL	64-5135	1-10-89	JP			X	
↓	AM	63-28145	2-5-88	JP			X	
AS	AN	62-133842	6-17-87	JP	—	—	X	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	AO	Tricia Hill et al., "A Performance Study of NLA 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826.
	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20. r date
↓ AS	AQ	Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

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Date Submitted to PTO: October 5, 2000

ATTY DOCKET NO.
2000_1390SERIAL NO.
NEW

09/477420

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	5,105,442	4-14-92	Wei			
	AB	4,048,572	9-13-77	Dogliotti et al.			
	AC	5,282,019	1-25-94	Basile et al.			
	AD	5,311,547	5-10-94	Wei			
	AE	5,267,021	11-30-93	Ramchandran et al.			
	AF	5,038,219	8-6-91	Yamashita et al.			
	AG	5,087,975	2-11-92	Citta et al.			
	AH	5,086,340	2-4-92	Citta et al.			
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ	53-137657	12-1-78	JP			X	
	AK	0282298	9-14-88	Europe			X	
	AL	0392538	10-17-90	Europe			X	
	AM	0490552	6-17-92	Europe			X	
	AN	0506400A2	9-30-92	Europe				

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085
	AP	P. Hoeher et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1.1 - 2.1.7
AS	AQ	K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV*, 1992, Pages 283-292

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FORM PTO 1449 (unmodified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: October 5, 2000

ATTY DOCKET NO.
2000_1390SERIAL NO.
NEW

10 09677420

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	5,142,353	8-25-92	Kageyama et al.	I	I	
↓	AB	5,197,061	3-23-93	Halbert-Lassalle et al.	I	I	
↓	AC	5,291,289	3-1-94	Hulyalkar et al.	I	I	
AS	AD	5,166,924	11-24-92	Moose	I	I	
	AE						
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FOREIGN PATENT DOCUMENTS

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AS	AJ	0448492A1	9-25-91	Europe	I	I	
↓	AK	0485108A2	5-13-92	Europe	I	I	
↓	AL	0525641A2	2-3-93	Europe	I	I	
↓	AM	0540231A2	5-5-93	Europe	I	I	
AS	AN	0531046A2	3-10-93	Europe	I	I	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	AO	K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.
↓	AP	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.
AS	AQ	William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.

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Date Submitted to PTO: October 5, 2000

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APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000

GROUP

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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ad	AJ	85/04541	10-10-85	WO	—	—		
	AK							
	AL							
	AM							
	AN							

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

ad	AO	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.
↓	AP	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207.
ad	AQ	English Language Abstract of European Patent No. 93 30 7575

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APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	4,636,876	1-13-87	Schwartz	I	I	
I	AB	4,855,692	8-8-89	Kennard et al.	I	I	
I	AC	4,873,701	10-10-89	Tretter	I	I	
I	AD	4,958,360	9-18-90	Sari	I	I	
I	AE	5,115,453	5-19-92	Calderbank et al.	I	I	
AS	AF	5,168,509	12-1-92	Nakamura et al.	I	I	
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AS	AJ	0122805	10-24-84	EP	—	—	X
AS	AK	63-180280	7-25-88	JP	—	—	abstract
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	AO	Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 International Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.
I	AP	Thomas M. Cover, Broadcast Channels, IEEE Transactions on Information Theory, January 1972, Pages 2-14
I	AQ	"Optimum Weighted PCM for Speech Signals", Sundberg, IEEE Transactions on Communications, Volume COM-26, No. 6, June 1978, Pages 872-881.

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DATE CONSIDERED

05.09.02

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INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: March 6, 2007

ATTY DOCKET NO.
2000_1390SERIAL NO.
09/677,420APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000

GROUP

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	5,210,770	5-11-93	Rice			
/DH/	AB 5,519,730	5-21-96	Jasper et al.			
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/DH/	AJ 3-13145	1-22-91	Japan			abstract
/DH/	AK 4-322592	11-12-92	Japan			abstract
/DH/	AL 63-253738	10-20-88	Japan			abstract
/DH/	AM 62-502932	11-19-87	Japan			abstract
/DH/	AN 58-107740	6-27-83	Japan			abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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DATE CONSIDERED

03/19/2007

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#6

Sheet 1 of 1		FORM PTO 1449 (modified)		ATTY DOCKET NO. 2000_1390		SERIAL NO. 09/677,420	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i> Date Submitted to PTO: September 24, 2001				APPLICANT Mitsuaki OSHIMA et al.			
				FILING DATE October 5, 2000		GROUP 2614 2611	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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AE	AJ	04-196822	7-16-92	Japan	—	—	abstract
AE	AK	0 506 400	9-30-92	Europe	—	—	X
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: June 2, 2006			ATTY DOCKET NO. 2000_1390		SERIAL NO. 09/677,420		
			APPLICANT Mitsuaki OSHIMA et al.				
			FILING DATE October 5, 2000		GROUP 2634 2611		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	4,003,002	1-11-77	Snijders et al.			
/DH/	AB	4,053,713	10-11-77	Nitadori			
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FOREIGN PATENT DOCUMENTS							
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EXAMINER				DATE CONSIDERED			
/Dac Ha/				03/05/2007			

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INFORMATION DISCLOSURE STATEMENT

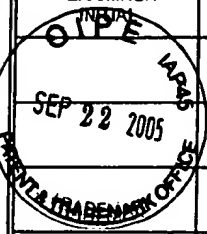
FORM PTO 1449 (modified)

ATTY DOCKET NO.
2000_1390SERIAL NO.
09/677,420U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)APPLICANT
Mitsuaki OSHIMA et al.

Date Submitted to PTO: December 21, 2004

FILING DATE
October 5, 2000GROUP
2634 2611

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DH	AJ	3-48587	3-1-91	Japan	—	—	abstract
	AK						
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)


DH	AO	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991
DH	AP	Ryutaro OHMOTO et al., " $\pi/4$ -shift QPSK Subcarrier Transmission", 1991
	AQ	

EXAMINER

DATE CONSIDERED

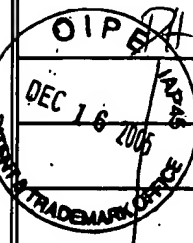
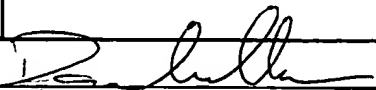
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Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT						
FORM PTO 1449 (modified)		ATTY DOCKET NO. 2000_1390			SERIAL NO. 09/677,420			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary). Date Submitted to PTO: November 8, 2005		APPLICANT Mitsuaki OSHIMA et al.						
		FILING DATE October 5, 2000			GROUP 2634-2611			
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DH	AA	4,918,437	4-17-90	Jasinski et al.	_____	_____	_____	
	AB	5,023,889	6-11-91	Divsalar et al.	_____	_____	_____	
	AC	5,063,452	11-5-91	Higurashi	_____	_____	_____	
	AD	5,124,852	6-23-92	Suwa et al.	_____	_____	_____	
	AE	5,136,380	8-4-92	Cho	_____	_____	_____	
	AF	5,146,335	9-8-92	Kim et al.	_____	_____	_____	
	AG	5,148,422	9-15-92	Sako et al.	_____	_____	_____	
DH	AH	5,218,436	6-8-93	Sugiyama et al.	_____	_____	_____	
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ							
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FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: December 16, 2005				ATTY DCKET NO. 2000_1390		SERIAL NO. 09/677,420	
				APPLICANT Mitsuaki OSHIMA et al.			
				FILING DATE October 5, 2000		GROUP 2634-2611	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
 DH	AA	4,597,090	6-24-86	Forney, Jr.	_____	_____	_____
	AB	4,077,021	2-28-78	Csajka et al.	_____	_____	_____
	AC	2005/0084750	4-21-05	Wang et al.	_____	_____	_____
	AD	2005/0058633	3-17-05	Epstein et al.	_____	_____	_____
	AE	2005/0922922					
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DH	AF	2627574	7-21-04	CN	_____	_____	
	AG	1529838	5-11-05	EP	_____	_____	abstract
	AH	1499725	5-26-04	CN	_____	_____	only abstract
	AI	2004-159207	6-3-04	JP	_____	_____	corresponds to AH
	AJ	1528854	5-11-05	EP	_____	_____	only abstract
	AK	52118	12-16-02	UA	_____	_____	only abstract
DH	AL	1569334	1-26-05	CN	_____	_____	
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EXAMINER 				DATE CONSIDERED 5/4/06			

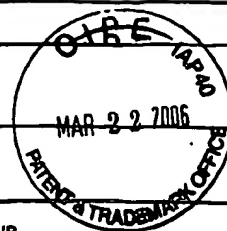
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Date Submitted to PTO: March 22, 2006

ATTY DOCKET NO.
2000_1390SERIAL NO.
09/677,420APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000GROUP
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	4,267,592	5-12-81	Craiglow	—	—	—
	AB	4,601,045	7-15-86	Lubarsky	—	—	—
	AC	4,912,706	3-27-90	Eisenberg et al.	—	—	—
	AD	4,914,655	4-3-90	Johannes et al.	—	—	—
DH	AE	5,018,198	5-21-91	Takahashi	—	—	—
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